

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	73	((("6338586") or ("6508262") or ("0024450") or ("1352624") or ("1592356") or ("1845143") or ("2076897") or ("2130919") or ("3255721") or ("3298723") or ("3603628") or ("3606372") or ("4641676") or ("4733625") or ("4917442") or ("4947884") or ("5031266") or ("5567080") or ("5632292") or ("5702198") or ("5794640") or ("5944040") or ("6070604") or ("6089247") or ("6152157") or ("6230910"))).PN.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/09/23 13:29
S1	92	135/139.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:50
S2	80	135/140.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:00
S3	79	S2 not S1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:00
S4	59	135/141.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:03
S5	53	S4 not (S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:03
S6	78	135/142.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:07
S7	68	S6 not (S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:08

EAST Search History

S8	158	248/354.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:11
S9	158	S8 not (S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:11
S10	206	248/407.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:17
S11	205	S10 not (S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:17
S12	279	248/408.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:17
S13	270	S12 not (S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:17
S14	62	248/409.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:19
S15	60	S14 not (S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 15:20
S16	215	248/423.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:08
S17	195	S16 not (S14 or S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:08

EAST Search History

S18	719	248/188.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:28
S19	604	S18 not (S16 or S14 or S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:31
S20	132	403/109.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:33
S21	117	S20 not (S18 or S16 or S14 or S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:33
S22	42	403/109.2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:34
S23	32	S22 not (S20 or S18 or S16 or S14 or S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:34
S24	308	403/109.3.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:39
S25	202	S24 not (S22 or S20 or S18 or S16 or S14 or S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:40
S26	208	403/109.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:43
S27	179	S26 not (S24 or S22 or S20 or S18 or S16 or S14 or S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:43

EAST Search History

S28	33	403/109.6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:44
S29	28	S28 not (S26 or S24 or S22 or S20 or S18 or S16 or S14 or S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:44
S30	67	403/109.7.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:45
S31	56	S30 not (S28 or S26 or S24 or S22 or S20 or S18 or S16 or S14 or S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:46
S32	50	403/109.8.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:50
S33	40	S32 not (S30 or S28 or S26 or S24 or S22 or S20 or S18 or S16 or S14 or S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:51
S34	134	403/379.4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:51
S35	130	S34 not (S32 or S30 or S28 or S26 or S24 or S22 or S20 or S18 or S16 or S14 or S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 16:51
S36	110	403/379.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 17:10
S37	94	S36 not (S34 or S32 or S30 or S28 or S26 or S24 or S22 or S20 or S18 or S16 or S14 or S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 17:10

EAST Search History

S38	349	403/378.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 17:10
S39	267	S38 not (S36 or S34 or S32 or S30 or S28 or S26 or S24 or S22 or S20 or S18 or S16 or S14 or S12 or S10 or S8 or S6 or S4 or S2 or S1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/13 17:10
S40	8	((("3980409") or ("5462380") or ("4165854") or ("6152157")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/09/13 17:18
S41	0	("2002/0179134").URPN.	USPAT	OR	ON	2005/09/13 17:28
S42	24	("0024450" "1352624" "2076897" "3255721" "3298723" "3603628" "3606372" "4733625" "4917442" "5031266" "5794640" "5944040" "6152157" "6230910" "6338586").PN. OR ("6575656"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/13 17:29
S43	16	("4607656" "4641676" "4779635" "4885891" "4947884" "5244001" "5275188" "5421356" "5634483" "5806549" "6089247" "6112757" "6148835" "6240940").PN. OR ("6508262").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/13 18:15
S44	19	("2659413" "2806723" "3309050" "3327985").PN. OR ("3770236").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/13 18:19
S45	3	("1044523").URPN.	USPAT	OR	ON	2005/09/13 18:20
S46	17	("2687866" "3589757" "4029279" "4047821" "4174900" "4185936" "4360283" "4596484" "4666112" "4761092" "5154449" "5186429" "5348297" "5887835" "6306040" "6702482").PN. OR ("6913231"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/13 18:21
S47	16	("1364169" "2386450" "2628854" "2659559" "3533583" "3589757").PN. OR ("3780974"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/13 18:23

EAST Search History

S48	31	("0617500" "1081902" "1742457" "2134301" "3265415" "3933222" "4579473" "4779635" "4846204" "4847950" "4947884" "5195551" "5275188" "5421356" "5490532" "5499646" "5568675" "5601299" "5638853" "5701923" "5775860" "5921260").PN. OR ("6152157").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/13 18:25
S49	14	("5458020" "5488756" "5806143" "5862572" "5911263" "6134749" "6141828" "6161253" "6223391").PN. OR ("6338586").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/09/13 18:28
S51	34	ferguson-mi\$.xa. and weld\$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/09/14 14:48
S52	141	403/109.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:21
S53	47	403/109.2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:22
S54	316	403/109.3.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:24
S55	212	403/109.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:25
S56	37	403/109.6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:27
S57	0	("2006/0062632").URPN.	USPAT	OR	ON	2006/04/28 10:26

EAST Search History

S58	68	403/109.7.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:29
S59	52	403/109.8.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:29
S60	354	403/378.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:31
S61	137	403/379.4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:32
S62	114	403/379.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:33
S63	92	135/139.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:33
S64	81	135/140.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:34
S65	59	135/141.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:34
S66	79	135/142.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:35
S67	727	248/188.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:36

EAST Search History

S68	216	248/423.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:37
S69	158	248/354.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:40
S70	206	248/407.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:40
S71	280	248/408.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:41
S72	63	248/409.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:41
S73	2	de-3604497-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/28 10:43
S74	93	135/139.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:50
S75	81	135/140.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:50
S76	60	135/141.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:51
S77	81	135/142.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:51

EAST Search History

S78	733	248/188.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:52
S79	216	248/423.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:53
S80	158	248/354.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:53
S81	208	248/407.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:53
S82	282	248/408.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:53
S83	63	248/409.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:54
S84	144	403/109.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:54
S85	50	403/109.2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:55
S86	322	403/109.3.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:56
S87	216	403/109.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:56

EAST Search History

S88	41	403/109.6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:58
S89	0	("2006/0062632").URPN.	USPAT	OR	ON	2006/09/25 12:57
S90	69	403/109.7.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:58
S91	52	403/109.8.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:58
S92	358	403/378.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:59
S93	138	403/379.4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:59
S94	115	403/379.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 12:59
S95	2	de-3604497-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/25 13:02
S96	2	de-3604497-\$.did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 12:33
S97	174	403/109.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 13:14

EAST Search History

S98	2	("6575656").PN.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/08/18 13:31
S99	54	403/109.2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:23
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S10 1	224	403/109.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:29
S10 2	43	403/109.6.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:29
S10 3	75	403/109.7.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:30
S10 4	57	403/109.8.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:30
S10 5	365	403/378.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:31
S10 6	143	403/379.4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:31

EAST Search History

S10 7	121	403/379.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:32
S10 8	101	135/139.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:33
S10 9	85	135/140.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:34
S11 0	63	135/141.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:40
S11 1	85	135/142.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:41
S11 2	746	248/188.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:41
S11 3	167	248/354.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:42
S11 4	218	248/407.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:43
S11 5	288	248/408.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:43
S11 6	66	248/409.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:44

EAST Search History

S11 7	222	248/423.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/18 14:48
S11 8	62	pole with (superimpos\$3 or telescop\$3) with (tab or pin)	US-PGPUB	OR	ON	2008/08/18 14:50
S11 9	33	("1229343") or ("3037253") or ("2449600") or ("0262839") or ("0471979") or ("0813574") or ("1520628") or ("2571347") or ("3884450") or ("6102371")).PN.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/08/19 08:36



STIC Search Report

EIC 3600

STIC Database Tracking Number 107708

Mike Ferguson
Location: 2A41
Art Unit: 3679
Employee# 78946
Tuesday, September 23, 2008
Case Serial Number: 10/812342

From: Etelka R. Griffin
Location: EIC 3600
KNOX/4B68
Phone: 571-272-4230

Etelka.griffin@uspto.gov

Search Notes

Litigation Search

Reissue: 6575656
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863282 (09) 6575656 June 10, 2003

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6575656

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June 10, 2003

Pull pin assembly for canopy

INVENTOR: Suh, Dong Tack - Seoul, Korea, South (KR)**APPL-NO:** 863282 (09)**FILED-DATE:** May 24, 2001**GRANTED-DATE:** June 10, 2003**ASSIGNEE-PRE-ISSUE:** September 18, 2001 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., CARAVAN CANOPY INTERNATIONAL, INC. 2111 SOUTH ACACIA AVENUE COMPTON, CALIFORNIA, 90229, Reel and Frame Number: 012166/0962**ASSIGNEE-AT-ISSUE:** Caravan Canopy International, Inc., Compton, California, United States (US), United States company or corporation (02)**CORE TERMS:** pull pin, pole, hole, hollow, plug, circumferential, rod, pin, biasing, second position ...**ENGLISH-ABST:**

A pull pin assembly includes: a first pole having a first hole; a second pole having a second hole, and sliding in the first pole; a main body having a central hollow containing the first pole; a pull pin body extending radially from the central hollow, and having a space extending into the central hollow; a pull pin, having a circumferential stop, disposed in the space to move from a first position extending into the central hollow through the first hole to a second position outside the central hollow; a pull pin plug fit into the space and having a hollow containing the pull pin; and a biasing member biasing the pull pin toward the second position to lock the first and second poles; wherein the biasing member is disposed to bias the pull pin between the circumferential stop and the pull pin plug.

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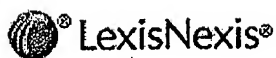
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Family Accession Nbr :

20042801354089

Patent Number :

CA2447952	A1	20021128	[CA2447952]
WO02095165	A2	20021128	[WO200295165]
US2002179134	A1	20021205	[US20020179134]
US6575656	B2	20030610	[US6575656]
WO02095165	A3	20030703	[WO200295165]
GB0327086	D0	20031224	[GB200327086]
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GB2406107	A	20050323	[GB2406107]
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GB2410041	B	20051123	[GB2410041]
GB2406107	B	20051123	[GB2406107]
GB2392459	B	20051123	[GB2392459]
AU2002247358	B2	20060504	[AU2002247358]
CA2447952	C	20071009	[CA2447952]

Title :

Pull pin assembly for canopy

Patent Assignee :

CARAVAN CANOPY INTERNATIONAL IN
CARAVAN CANOPY INTERNAT INC
CARAVAN CANOPY INTERNATIONAL I

Orig. Patent Assignee :

Caravan Canopy International, Inc., Compton CA [US]

Inventor(s) :

SUH DONG TACK

Application Nbr :

2001US-0863282 20010524; 2002AU-0247358 20020318; 2005GB-0006622
20020318; 2004GB-0024247 20020318
2002CA-2447952 20020318; 2003GB-0027086 20020318; 2002WO-US08162
20020318; 2003MX-PA10738 20031124

Priority Details :

2001US-0863282 20010524; 2002WO-US08162 20020318; 2003GB-0027086
20020318

IPC :

E04H
E04H-015/34
E04H-015/46
E04H-015/50
E04H-015/60
F16B-007/00
F16B-007/10

IPC Advanced All :

E04H-015/46 [2006-01 A - I R M EP]; E04H-015/50 [2006-01 A - I R M EP];
F16B-007/10 [2006-01 A - I R M EP]

IPC Core All :

E04H-015/34 [2006 C - I R M EP]; F16B-007/00 [2006 C - I R M EP]

ECLA :

E04H-015/46
E04H-015/50
F16B-007/10B

US Class :

ORIGINAL (O) : 403109600; CROSS-REFERENCE (X) : 135114000 135131000
135142000 403109100 403379500

Designated States :

(WO200295165)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
ARIPO patent : GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
Eurasian patent : AM AZ BY KG KZ MD RU TJ TM
European patent : AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
TR

OAPI patent : BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

Citations :

(US20020179134)

US--24450 [US--24450] 292175000
-US1352624 [US1352624] 292175000
-US2076897 [US2076897] 070090000
-US3255721 [US3255721] 108159000
-US3298723 [US3298723] 294082350
-US3603628 [US3603628] 403172000
-US3606372 [US3606372] 016113100
-US4733625 [US4733625] 114230280
-US4917442 [US4917442] 301111050
-US5031266 [US5031266] 015327200
-US5794640 [US5794640]
-US5944040 [US5944040]
-US6152157 [US6152157] 135126000
-US6230910 [US6230910] 211192000
-US6338586 [US6338586] 016113100
-FR26436 [FR--26436]
-GB8959 [GB--8959]
-GB24959 [GB--24959]

Citations :

(WO200295165)

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-US6152157(A) (Cat. Y) [US6152157]
-US5031266(A) (Cat. Y) [US5031266]
-US6338586(B1) (Cat. Y,P) [US6338586]
-GB189108959(A) (Cat. Y) [GB189108959]

Citations :

(GB200327086)

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-US3980409(A) [US3980409]
-US5031266(A) [US5031266]
-US5462380(A) [US5462380]
-US6070604(A) [US6070604]
-US6152157(A) [US6152157]
-US6338586(B1) [US6338586]
-GB8959 A(DUNBAR et al.) 04july 1891 entire document

Citations :

(GB200424247)

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-DE3604497(A1) [DE3604497]
-DE3841254(A1) [DE3841254]
-US4165854(A) [US4165854]

Citations :

(GB200506622)

Cited in the search report

-US6152157(A) [US6152157]

Citations :

(AU2002247358)

Cited in the search report

-US5031266(A) [US5031266]
-US6338586(B1) [US6338586]
-US6152157(A) [US6152157]

Abstract :

(US20020179134)

A pull pin assembly includes: a first pole having a first hole; a second pole having a second hole, and sliding in the first pole; a main body having a central hollow containing the first pole; a pull pin body extending radially from the central hollow, and having a space extending into the central hollow; a pull pin, having a circumferential stop, disposed in the space to move from a first position extending into the central hollow through the first hole to a second position outside the central hollow; a pull pin plug fit into the space and having a hollow containing the pull pin; and a biasing member biasing the pull pin toward the second position to lock the first and second poles; wherein the biasing member is disposed to bias the pull pin between the circumferential stop and the pull pin plug.

Object of Invention :

(US20020179134)

[0005] In accordance with the present invention there is provided a pull pin assembly comprising:

a first rod or pole, having a first hole and a second notch or hole, and a second rod or pole, having third hole, the second rod or pole being slidably contained within the first rod or pole, so that the first hole is superimposable on the second hole.

Advantages / Prev. Drawbacks.:

(US20020179134)

The locking means for locking poles or rods 11 and 12 in the erected, expanded position have traditionally been difficult to assemble and mount, unnecessarily complicated, and often unreliable.

Independent Claims :

(US20020179134)

1. A pull pin assembly, comprising:

a first rod or pole, having a first hole and a second notch or hole; a second rod or pole, having third hole, the second rod or pole being slidably contained within the first rod or pole, so that the first hole is superimposable on the second hole; a main body, having a central hollow dimensioned to contain the first rod or pole, and having at least one resilient tab, the resilient tab being cut out from the main body and having a boss thereon extending into the central hollow to engage the second notch or hole of the first rod or pole; a pull pin body integral with the main body and extending radially outward from the central hollow, said pin body having a space therein extending into the central hollow; a pull pin slidably disposed in the space of the pull pin body to move from a first position extending into the central hollow through the first hole to a second position outside of the central hollow; and a biasing member biasing the pull pin toward the second position to relatively lock the first rod or pole and the second rod or pole when the first hole is superimposed on the second hole.

13. A pull pin assembly, comprising:

a rod or pole, having a hole; a main body, having a central hollow dimensioned to contain the rod or pole; a pull pin body integral with the main body and extending radially outward from the central hollow, said pin body having a space therein extending into the central hollow; a pull pin slidably disposed in the space of the pull pin body to move from a first position extending into the central hollow through the first hole to a second position outside of the central hollow, said pull pin having a circumferential stop; a pull pin plug fit into the space of the pin body, the pull pin plug having a hollow dimensioned to slidably contain the pull pin; and a biasing member biasing the pull pin toward the second position to relatively lock the first rod or pole and the second rod or pole when the first hole is superimposed on the second hole; wherein the biasing member is disposed to bias the pull pin between the circumferential stop and the pull pin plug, and wherein the circumferential stop is dimensioned to prevent the pull pin from passing completely through the first hole in the second position.

Update New docs :
2004-09

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Patent Number :

AU2002247358 B2 20060504 [AU2002247358] (B2) Patent preceded by OPI

Application Number :

AU2002247358 20020318 [2002AU-0247358]

Publication actions :

20020318 AU-API [POS; EXM]

FILING DETAILS

AU2002247358 20020318 [2002AU-0247358]

20060504 AU-B2 [POS; PIF]

Patent preceded by OPI

AU2002247358 B2 20060504 [AU2002247358]

Action Taken :

20060831 AU/FGA-A [POS; PIF]

LETTERS PATENT SEALED (STANDARD PATENT)

Lastest Event Group :

PIF

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Update Code :

2008-20

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Patent Number :

US2002179134 A1 20021205 [US20020179134]

(A1) First published patent application

US6575656 B2 20030610 [US6575656]

(B2) Granted patent as second publication

Application Number :

US86328201 20010524 [2001US-0863282]

Publication actions :

20010524 US-API [POS; EXM]

FILING DETAILS

US86328201 20010524 [2001US-0863282]

20021205 US-A1 [POS; EXM]

First published patent application

US2002179134 A1 20021205 [US20020179134]

20030610 US-B2 [POS; PIF]

Granted patent as second publication

US6575656 B2 20030610 [US6575656]

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DATE: 20010912

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DATE: 20010912

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SEO);REEL/FRAME:012166/0962

20040720 US/RF-A [OPP]

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EFFECTIVE DATE: 20040329

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Update Code :

2006-03

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Patent Number :

WO02095165 A2 20021128 [WO200295165]

(A2) International publication without international search report

WO02095165 A3 20030703 [WO200295165]

(A3) International search report

Application Number :

WOUS0208162 20020318 [2002WO-US08162]

Publication actions :

20020318 WO-API [POS; EXM]

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WOUS0208162 20020318 [2002WO-US08162]

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International publication without international search report

WO02095165 A2 20021128 [WO200295165]

20030703 WO-A3 [POS; EXM]

International search report

WO02095165 A3 20030703 [WO200295165]

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20021128 WO/AK [POS; ADM]

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ

EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR

LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI

SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

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GN GQ GW ML MR NE SN TD TG

20021128 WO/ENP [ENP]

ENTRY INTO THE NATIONAL PHASE IN:

Corresponding Appl: GB 0327086

PCT FILING DATE = 20020318

20030122 WO/121 [ENP]

EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION

20030731 WO/DFPE [EXM]

REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)

20031120 WO/WWE [POS; ENP]

WIPO INFORMATION: ENTRY INTO NATIONAL PHASE

Corresponding Doc: CA 2447952

20031126 WO/WWE [POS; ENP]

WIPO INFORMATION: ENTRY INTO NATIONAL PHASE

Corresponding Doc: AU 2002247358

20040401 WO/REG; DE/8642 [NEG; ENP; RLW]

REFERENCE TO NATIONAL CODE

DE: IMPACT ABOLISHED FOR DE - I.E. PCT APPL. NOT ENT. GERMAN PHASE
DE: WIRKUNG WEGGEFALLEN FUER DE
Corresponding cc: DE

20040818 WO/122 [NEG; ENP]
EP: PCT APP. NOT ENT. EUROP. PHASE

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Corresponding cc: JP

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Corresponding cc: JP

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Update Code :
2008-26

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Patent Number :

CA2447952 A1 20021128 [CA2447952]
(A1) Application laid open
CA2447952 C 20071009 [CA2447952]
(C) Patent (second level)

Application Number :

CA2447952 20020318 [2002CA-2447952]

Publication actions :

20020318 CA-API [POS; EXM]
FILING DETAILS
CA2447952 20020318 [2002CA-2447952]
20021128 CA-A1 [POS; EXM]
Application laid open
CA2447952 A1 20021128 [CA2447952]
20071009 CA-C [POS; PIF]
Patent (second level)
CA2447952 C 20071009 [CA2447952]

Action Taken :

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NATIONAL PHASE ENTRY

20031120 CA/EEER-A [POS; EXM]
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Lasted Event Group :

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Update Code :
2006-23

1 / 1 CRXX - ^oCLAIMS/RRX

Patent Number :

6,575,656 A 20030610 [US6575656]

Patent Assignee :

Caravan Canopy International Inc

Actions :

20040329 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040720
REISSUE REQUEST NUMBER: 10/812342
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3637

Reissue Patent Number: